Note Title Regardly controllability & realisations Recall the Thigh esample? $\frac{F(s)}{S(s+2)} = \frac{(s+2)}{(s+2)}$ Constler talery partle frathons

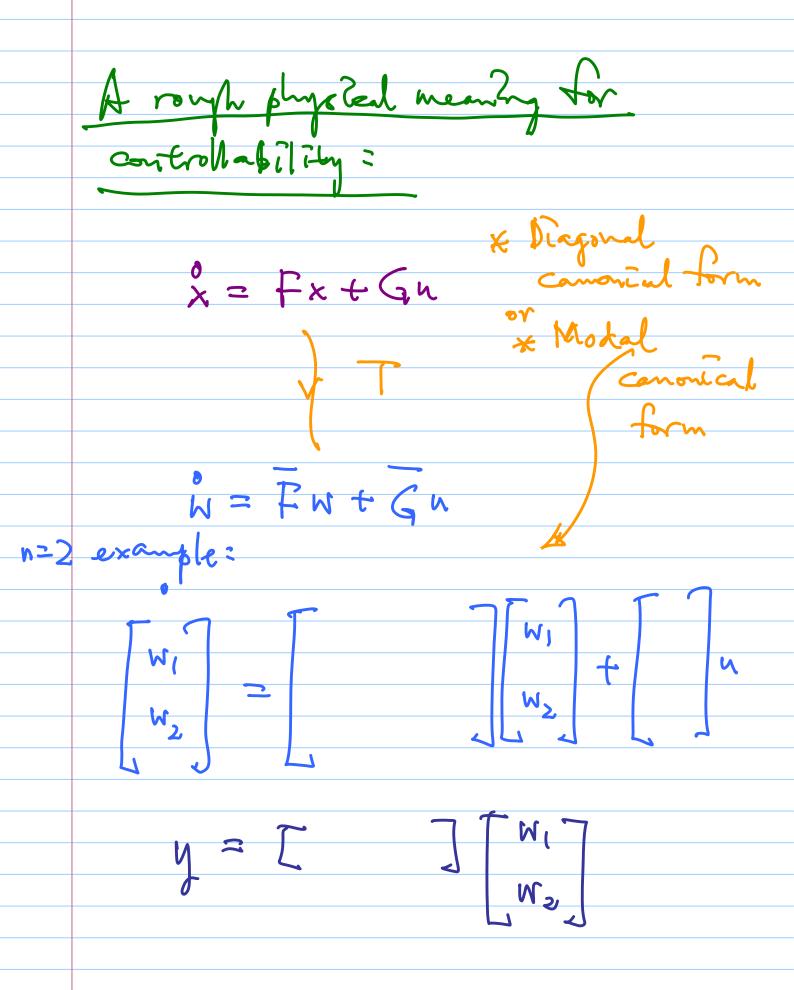
he can re-write this as =

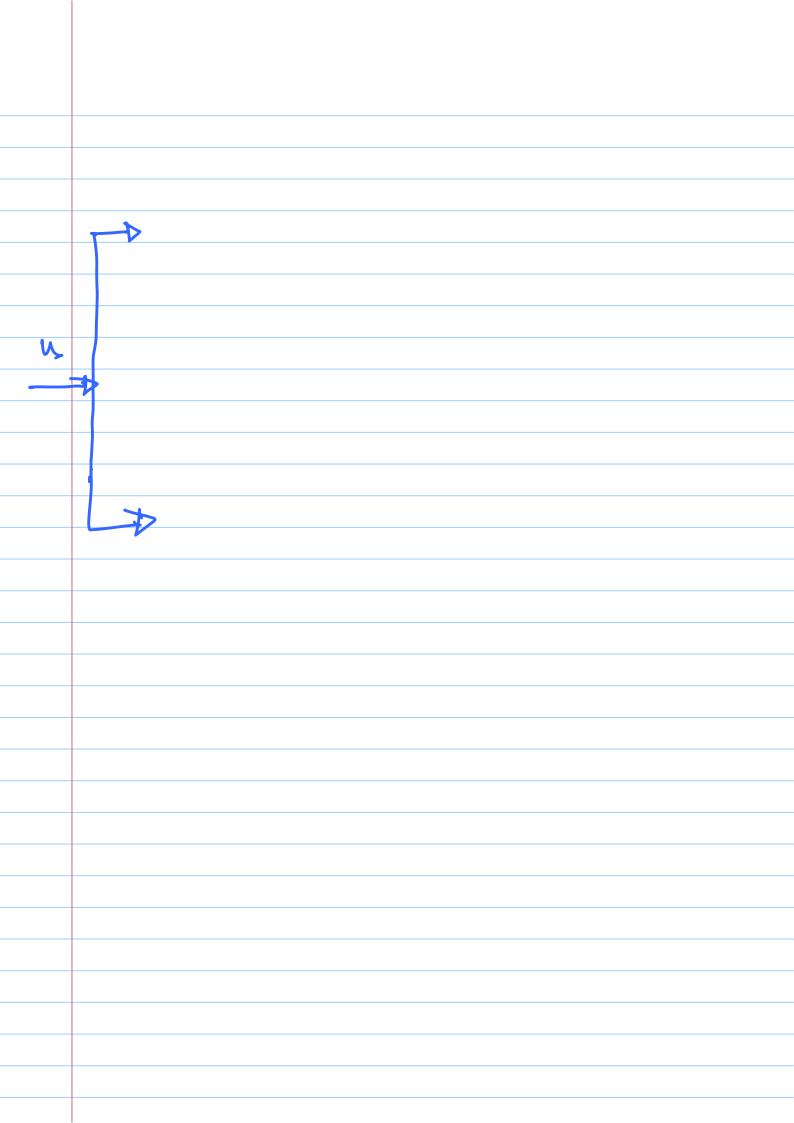
$$Y(s) = \frac{31}{(s+2)} W(s) + \frac{72}{(s+2)} U(s)$$

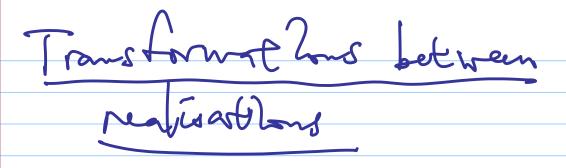
$$W(s) = \frac{31}{(s+2)} W(s)$$

$$W(s) = \frac{31}{(s+2)} W(s)$$

$$W_{1} = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2} \right$$







Rom en Per, we have

Then, wote that

$$C_2 = \begin{bmatrix} G_2 & F_2 & G_2 & \cdots & F_n & G_2 \end{bmatrix}$$

Obserbe each term in the above :

G= TG,

F = G =

7

f₂ G₃ =

•

F₂ G₂ = ... =

